What Is Claimed:

1. An air flow directing baffle that is inserted into a casing shell of an air cooled dynamoelectric device to direct a flow of cooling air across the dynamoelectric device, the baffle comprising:

a plate having an interior surface that faces toward the dynamoelectric device when the baffle is installed in the casing shell and an opposite exterior surface, a center hole with a center axis passing through the plate, an inner edge of the plate extending around the center hole and an outer edge of the plate extending around an outer perimeter of the plate, and an annular lip that extends around the center hole and projects outwardly from the interior surface.

2. The baffle of Claim 1, further comprising:

the annular lip having a convex surface.

3. The baffle of Claim 2, further comprising:

the convex surface of the lip extending to the inner edge of the plate.

4. The baffle of Claim 2, further comprising:

the plate interior surface having a flat, annular portion and the lip convex surface merging as a continuous surface into the flat, annular portion of the plate interior surface.

5. The baffle of Claim 2, further comprising:

the convex surface of the lip being spaced from the dynamoelectric device when the baffle is inserted into the casing shell.

6. The baffle of Claim 1, further comprising:

a cylindrical rim extending around the outer edge of the plate and the rim being dimensioned for a tight fit to the casing shell when the baffle is inserted into the casing shell.

7. The baffle of Claim 6, further comprising:

the cylindrical rim projecting axially outward from the plate interior surface.

8. The baffle of Claim 6, further comprising:

the cylindrical rim having an annular concave surface that merges into the plate interior surface.

9. An air flow directing baffle that is inserted into a casing shell of an air cooled dynamoelectric device to direct a flow of cooling air across the dynamoelectric device, the baffle comprising:

a circular plate having an interior surface that faces toward the dynamoelectric device when the baffle is inserted in the casing shell and an opposite exterior surface, a center hole with a center axis passing through the plate, an inner edge of the plate extending around the center hole and an outer edge of the plate extending around an outer perimeter of the plate, and a cylindrical rim extending around the outer edge of the plate and projecting axially outwardly from the interior surface, the cylindrical rim having an annular concave surface that merges into the interior surface.

10. The baffle of Claim 9, further comprising:

the cylindrical rim being dimensioned for a tight fit to the casing shell when the baffle is inserted into the casing shell.

11. The baffle of Claim 10, further comprising:

a plurality of spatially arranged holes through the annular concave surface for the passage of fasteners through the holes.

12. The baffle of Claim 9, further comprising:

an annular lip extending around the center hole and projecting outwardly from the interior surface.

13. The baffle of Claim 12, further comprising:

the annular lip having a convex surface.

14. The baffle of Claim 13, further comprising:

the plate interior surface having a flat, annular portion and the lip convex surface merging as a continuous surface into the flat, annular portion of the plate interior surface.

15. The baffle of Claim 13, further comprising:

the convex surface of the lip being spaced from the dynamoelectric device when the baffle is inserted into the casing shell.

16. An air cooled dynamoelectric device comprising:

a casing shell having opposite interior and exterior surfaces, a center axis and axially opposite end openings;

a stator secured inside the casing shell with the casing shell interior surface surrounding the stator, the stator having wiring end turns at axially opposite ends of the stator;

a plate secured to the casing shell, the plate having an interior surface that faces toward the stator and an opposite exterior surface, a center hole passing through the plate with an inner edge of the plate extending around the center hole, and an annular lip extending around the center hole and projecting axially outwardly from the plate interior surface toward the stator.

17. The dynamoelectric device of Claim 16, further comprising:

the annular lip having a convex surface.

18. The dynamoelectric device of Claim 17, further comprising:

the convex surface of the lip extending to the inner edge of the plate.

19. The dynamoelectric device of Claim 17, further comprising:

the plate interior surface having a flat, annular portion and the lip convex surface merging as a continuous surface into the flat, annular portion of the plate interior surface.

20. The dynamoelectric device of Claim 17, further comprising:

the convex surface of the lip being axially spaced from the stator.

21. The dynamoelectric device of Claim 17, further comprising:

the convex surface of the lip being axially opposite and spaced from the stator wiring end turns.

22. The dynamoelectric device of Claim 16, further comprising:

a cylindrical rim extending around an outer perimeter of the plate, the cylindrical rim being tight fit against the casing shell interior surface securing the plate to the casing shell.

23. The dynamoelectric device baffle of Claim 22, further comprising:

the cylindrical rim projecting axially outwardly from the plate interior surface.

24. The dynamoelectric device baffle of Claim 22, further comprising:

the cylindrical rim having an annular concave surface that merges into the plate interior surface.